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| | | | Jernigan et al. | |
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| | Application Number 10 | | 665,664 | |
| | Filing Date | Sep | otember 18, 2003 | - |
| | Group Art Unit | 171 | 1 | |
| | Examiner Name | Irina | a Sopjia Zemel | |

| | | | U.S. P | ATENT DOCUMENTS | | | | | |
|---|------|--------------|--------------------------------------|---|------------------------|--|--|--|--|
| Examiner Cite U.S.Patent Document Name of Patentee or Applicant of Cited Document Doc | | | | | | | | | |
| initials* | No.1 | Number | Kind Code ² (if known) | Name of Patentee or Applicant of Cited Document | Document MM-DD-YYYY | | | | |
| | | 2,706,722 | | Caldwell | 04-19-1955 | | | | |
| | | 3,390,134 | | Kibler | 06-25-1968 | | | | |
| | | 3,972,852 | | Inata, et al. | 08-03-1976 | | | | |
| | | 5,164,478 | | Lee et al. | 11-17-1992 | | | | |
| | | 5,187,216 | | Cassell et al. | 02-16-1993 | | | | |
| | | 5,310,515 | | Jurgen et al. | 05-10-1994 | | | | |
| · · · · · · · · · · · · · · · · · · · | | 5,532,333 | | Stouffer et al. | 07-02-1996 | | | | |
| | | 5,540,868 | | Stouffer et al. | 07-30-1996 | | | | |
| | | 5,766,533 | | Mears et al. | 06-16-1998 | | | | |
| • | | 6,113,997 | , | Massey et al. | 09-05-2000 | | | | |
| | | 6,228,302 | | Al Ghatta | 05-08-2001 | | | | |
| | | 6,512,078 | | Gantillon et al. | 01-28-2003 | | | | |
| | | 2002/171159 | | Matthaei et al. | 11-21-2002 | | | | |
| - | | 2004/0011330 | | Sauler et al. | 01-22-2004 | | | | |

| | FOREIGN PATENT DOCUMENTS | | | | | | | | | | |
|--------------------|--------------------------|---|----------------|------------------------|---|--|----------------|--|--|--|--|
| Examiner Initials* | Cite No. | Foreign Patent Document Office ³ Number ⁴ Kind Code ⁵ (if known) | | Kind Code ⁵ | Name of Patentee or Applicant of Cited Document | Date of Publication of Cited Document MM-DD-YYYY | T [₫] | | | | |
| | | DD | 226896 (ABS) | | AKAD Wissenschaften DDR | 09-04-1985 | | | | | |
| | | DE | 10149474 | | Buhler AG, Uzwil CH | 04-17-2003 | 1 | | | | |
| | | DE | 10215344 (ABS) | | Primary Prod. Technologies GMBH | 10-30-2003 | | | | | |
| | | DE | 19848245 | | Rieter Automatik GMBH | 04-05-2000 | 1 | | | | |
| | | EP | 867458 (ABS) | | Mitsui Chem Inc. | 09-30-1998 | | | | | |

| Examiner (Signature | ma 1 | emil | Date Considered | 4-21-0.6 |
|---------------------|------|------|--------------------|----------|

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

| | | | | Attorn | ey Docket Numb | er | 71635 | | |
|------------------------|---------|------------------|----------|--------------|-------------------|----------|---------------------|------------|---|
| Substitute for fo | rm 1449 | | | First P | lamed Inventor | | Jernigan et al. | | |
| INFORMATION DISCLOSURE | | | | | COMPLETE IF KNOWN | | | | |
| STATEM | ENT B | ICANT | Applic | ation Number | 10 | /665,664 | | | |
| | | | | | Date | Se | ptember 18, 2003 | | |
| | | | | Group | Art Unit | 17 | 11 | | |
| Sheet | 2 | of | 3 | Exami | iner Name | Irir | na Sopjia Zemel | | |
| | JP | 3041851 | (ABS) | | Toyo Boseki | KK | · | 05-15-2000 | |
| | JP | 3075406 | (ABS) | | Toyobo KK | | | 08-14-2000 | |
| | JP | 3095166 | (ABS) | | Toyobo KK | | | 06-21-1999 | |
| | JP | 5305429 | 95 (ABS) | | Teijin Ltd. | | | 05-17-1978 | |
| | JR | 5904510 | 07 (ABS) | | Teijin Ltd. | | | 09-07-1982 | |
| | JP | 8073611 | 1 | | Mitsui Chem | icals | 5 | 03-19-1996 | 1 |
| | JP | 2000143 (ABS) | 3791 | | Mitsubishi C | hem | ı. Corp. | 05-26-2000 | |
| | JP | 2001040 (ABS) | 0081 | | Toyobo KK | | | 02-13-2001 | |
| | JP | 2001072 (ABS) | 2763 | | Toyobo KK | | | 03-21-2001 | |
| | JP | 200110((ABS) | 6777 | | Toyobo KK | | | 04-17-2001 | |
| | JP | 200113 (ABS) | 1277 | | Toyobo KK | | | 05-15-2001 | |
| | JP | 200124 | 7669 | | Toyobo Co. | Ltd. | ٠ | 09-11-2001 | 1 |
| | JP | 200130 (ABS) | 2777 | | Toyobo KK | | | 10-31-2001 | |
| | JP | 200130 (ABS) | 2778 | | Toyobo KK | | | 10-31-2001 | |
| | JP | 200210 (ABS) | 5189 | | Toyobo KK | | | 04-10-2002 | |
| | JP | 200233 | 2340 | | Toyobo Co. | ۲Įtd. | | 11-22-2002 | 1 |
| | JP | 200233 | 8676 | | Toyobo Co. | Ltd. | | 11-27-2002 | 1 |
| | JP | 200313 | 7993 | | Mitsubishi C | hen | nical Corporation | 05-14-2003 | 1 |
| | JP | 200318 | 1831 | | Private Con | npar | ny Sato **Industry* | 12-14-2001 | 1 |
| | JP | 200320 | 0420 | | Toppan Prir | nting | Co., Ltd. | 07-15-2003 | 1 |
| | JP | 200320 | 6344 | | Toyobo Co. | Ltd | | 07-22-2003 | 4 |
| | JP | 200320 | 6346 | | Toyobo Co. | Ltd | | 07-22-2003 | 1 |
| | JP | 200330 | 6537 | | Toyobo Co. | Ltd | • | 19-31-2003 | 1 |
| | JP | 200330 | 06538 | | Toyobo Co. | Ltd | | 10-31-2003 | 1 |

Examiner Signature Date Considered 4-27-06

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

| | Substitute for form 1449 | | | Attorney Docket Num | ber | 71635 | | |
|-------------------|--------------------------|-------|----------------|----------------------|--------------------------------------|--------------------|--|--|
| Substitute for to | m 1449 | | | First Named Inventor | First Named Inventor Jernigan et al. | | | |
| INFORM | ATION D | ISCLO | DSURE | | COMPLETE IF KNOWN | | | |
| STATEM | STATEMENT BY APPLICANT | | | Application Number | 10 | /665,664 | | |
| | | | | Filing Date | Se | September 18, 2003 | | |
| | | | Group Art Unit | 1711 | | | | |
| Sheet | 3 | of | 3 | Examiner Name | Iri | na Sopjia Zemel | | |

| JP | 2003306540 | Toyobo Co. Ltd. | 10-31-2003 | 1 |
|-----|--------------------|---------------------------------|------------|----------|
| JP. | 2003327680 | Mitsubishi Chemical Corporation | 11-19-2003 | 1 |
| JP | 2003342358 | Mitsui Chemicals Inc. | 12-03-2003 | 1 |
| wo | 00/32673 | Rhodia | 06-08-2000 | 1 |
| wo | 200032677 (ABS) | Tergal Fibres | 06-08-2000 | |
| wo | 200112698 (ABS) | Buehler | 02-22-2001 | |
| | | | | <u> </u> |
| | | | | |

| | | OTHER - NON PATENT LITERATURE DOCUMENTS | |
|--------------------|-------------|---|----|
| Examiner Initials* | Cite No. | Include name of the author(in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, pages(s), volume-issue number(s), publisher, city and/or country where published. | τ° |
| | | • | |
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| Examiner Signature | Jenul | Date Considered | 4-27-06 |
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*EXAMINER: Initial if reference considered. Whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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| Attorney Docket Number First Named Inventor | | 71635 | |
|---|-----|-------------------|--|
| | | Jernigan et al. | |
| | C | OMPLETE IF KNOWN | |
| Application Number | 10 | | |
| Filing Date | Se | eptember 18, 2003 | |
| Group Art Unit | 17 | 11 | |
| Examiner Name | tri | na Sopjia Zemel | |

| | | | U.S. F | PATENT DOCUMENTS | | |
|-----------------------|--------------|--------------------------|--|------------------|--|--|
| Examiner Initials* | Cite No.1 | U.S.Patent Doc Number | Current Kind Code ² Name of Patentee or Applicant of Cited Documer (if known) | | Date of Publication of Cited Document MM-DD-YYYY | |
| M | | 2,706,722 | | Caldwell | 04-19-1955 | |
| | | 3,390,134 | | Kibler | 06-25-1968 | |
| | | 3,972,852 | | Inata, et al. | 08-03-1976 | |
| | | 5,164,478 | | Lee et al. | 11-17-1992 | |
| | | 5,187,216 | | Cassell et al. | 02-16-1993 | |
| | | 5,310,515 | | Jurgen et al. | 05-10-1994 | |
| | | 5,532,333 | | Stouffer et al. | 07-02-1996 | |
| | | 5,540,868 | | Stouffer et al. | 07-30-1996 | |
| | | 5,766,533 | | Mears et al. | 06-16-1998 | |
| | | 6,113,997 | - | Massey et al. | 09-05-2000 | |
| | | 6,228,302 | | Al Ghatta | 05-08-2001 | |
| | | 6,512,078 | | Gantillon et al. | 01-28-2003 | |
| 1 | | 2002/171159 | | Matthaei et al. | 11-21-2002 | |
| M | | 2004/0011330 | | Sauler et al. | 01-22-2004 | |

| FOREIGN PATENT DOCUMENTS | | | | | | | | |
|--------------------------|--------------|---------------------|----------------|------------------------------|---|--|----------------|--|
| | Cite No.1 | Office ³ | Mumbar | nt Kind Code ⁵ | Name of Patentee or Applicant of Cited Document | Date of Publication of Cited Document MM-DD-YYYY | T ⁶ | |
| | | DD | 226896 (ABS) | | AKAD Wissenschaften DDR | 09-04-19 85 | | |
| 08 | | DE | 10149474 | | Buhler AG, Uzwil CH | 04-17-2003 | 1 | |
| 1 | | DE | 10215344 (ABS) | | Primary Prod. Technologies GMBH | 10-30-2003 | | |
| 1. | | DE | 19848245 | | Rieter Automatik GMBH | 04-05-2000 | 1 | |
| W | | EΡ | 867458 (ABS) | | Mitsui Chem Inc. | 09-30-1998 | | |

| Examiner Signature | Date Considered 4-27-06 |
|--------------------|-------------------------|

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| | | | | Attorr | ney Docket Numi | oer | 71635 | | \supset | |
|---|--------|-----------------|----------|--------|--------------------------------------|-------|--------------------|------------|-----------|--|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | | | | | First Named Inventor Jernigan et al. | | | | | |
| | | | | | COMPLETE IF KNOWN | | | | | |
| STATE | MENT B | Y APPL | ICANT | Applic | Application Number 10/6 | | 665,664 | | | |
| | | | | Filing | Date | Se | ptember 18, 2003 | | | |
| | | | | Group | Art Unit | 17 | 11 | | | |
| Sheet 2 of 3 | | | | Exam | Examiner Name Irina Sopjia Zem | | | <u>!</u> | | |
| 100 | JP | 3041851 (ABS) | | | Toyo Boseki Kl | | | 05-15-2000 | | |
| | JP | 307540 | 6 (ABS) | | Toyobo KK | | | 08-14-2000 | | |
| | JP | 309516 | 6 (ABS) | • | Toyobo KK | | | 06-21-1999 | | |
| | JP | 530542 | 95 (ABS) | | Teijin Ltd. | | | 05-17-1978 | | |
| | JP | 590451 | 07 (ABS) | | Teijin Ltd. | | | 09-07-1982 | | |
| | JP | 807361 | 1 | | Mitsui Chemicals | | | 03-19-1996 | 1 | |
| | JP | 200014 (ABS) | | | Mitsubishi C | hem | . Corp. | 05-26-2000 | | |
| | JP | 200104 (ABS) | 0081 | | Toyobo KK | | | 02-13-2001 | | |
| | JP | 200107 (ABS) | 2753 | | Toyobo KK | | | 03-21-2001 | | |
| | JP | 200110 (ABS) | 6777 | | Toyobo KK | | | 04-17-2001 | | |
| | JР | 200113 (ABS) | 1277 | | Toyobo KK | | | 05-15-2001 | | |
| | JP | 200124 | 7669 | | Toyobo Co. | Ltd. | | 09-11-2001 | √ , | |
| | JР | 200130 (ABS) | 2777 | | Toyobo KK | | | 10-31-2001 | | |
| | JP | 200130 (ABS) | 2778 | | Toyobo KK | | | 10-31-2001 | | |
| | JP | 200210 (ABS) | 5189 | | Toyobo KK | | | 04-10-2002 | | |
| | JP | 200233 | 2340 | | Toyobo Co. | Ltd. | | 11-22-2002 | 1 | |
| | JP | 200233 | 8676 | | Toyobo Co. | Ltd. | | 11-27-2002 | 1 | |
| | JP | 200313 | 7993 | • | Mitsubishi (| hem | nical Corporation | 05-14-2003 | 1 | |
| | JP | 200318 | 1831 | | Private Cor | npan | y Sato **Industry* | 12-14-2001 | 1 | |
| | JP | 200320 | 0420 | | Toppan Pri | nting | Co., Ltd. | 07-15-2003 | 1 | |
| | JP | 200320 | 6344 | | Toyobo Co. | Ltd. | | 07-22-2003 | 1 | |
| | JP | 200320 | 6346 | | Toyobo Co | Ltd. | | 07-22-2003 | 1 | |
| | JP | . 200330 | 6537 | _ | Toyobo Co | Ltd. | | 10-31-2003 | 1 | |
| 9 | JP | 200330 | 6538 | | Toyobo Co | Ltd. | | 10-31-2003 | 1 | |
| | | | | | | | | | | |

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| Substitute for form 1449 | | | | | | Attorney Docket Number | | | 71635 | | | |
|---|-----------------------|-------------|--------------------|---------------------------------|---------------|--|-------------------|--------------------|-----------------|----------|----------|--|
| | | | | | | First | Named Inventor | | Jernigan et al. | | | |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | | | | | | | COMPLETE IF KNOWN | | | | | |
| | | | | | | Application Number 10/665,664 Filing Date September 18, 2003 | | | | | | |
| | | | | | | | | eptember 18, 2003 | | | | |
| | | | | | | Group Art Unit 1 | | 17 | 711 | | | |
| Sheet | | 3 | of | 3 | | Examiner Name | | Irina Sopjia Zemel | | | _ | |
| 20 | | JP | 2003306540 | | | Toyobo Co. Ltd. | | 10-31-2003 | 1 | | | |
| | JP 2003327680 | | | Mitsubishi Chemical Corporation | | | 11-19-2003 | 1 | | | | |
| | | JP | 2003342358 | | | Mitsui Chemicals Inc. | | | 12-03-2003 | 1 | | |
| | | WO 00/32673 | | | Rhodia | | | 06-08-2000 | 1 | | | |
| | WO 200032677 (ABS) | | | | Tergal Fibres | | | 06-08-2000 | | | | |
| M | | wo | 200112698 (ABS) | | | | Buehler | | 02-22-2001 | | | |
| | - | | | | \dashv | | | | | | \vdash | |
| | | | (| OTHER | - NO | N PATE | NT LITERATU | RE C | DOCUMENTS | <u> </u> | <u> </u> | |
| Examiner Initials* Cite No. Include name of the author(in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, pages(s), volume-issue number(s), publisher, city and/or country where published. | | | | | | | | | т | | | |

Co-pending US application 10/986,129 filed November 10, 2004; CIP of US application number 10/683,522 filed October 10, 2003, ABD

Examiner Signature Date Considered 4= 27-06

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